DOCUMENT RESUME

ED 207 438 HE 014 381

TITLE Inventory of Physical Facilities of Ontario Universities, 1980-81.
INSTITUTION Council of Ontario Universities, Toronto. Research Div.
REPORT NO ISBN-0-88799-141-6
PUB DATE Jul 81
NOTE 82p.
AVAILABLE FROM Council of Ontario Universities, Research Division, 130 St. George Street, Suite 8039, Toronto, Ontario, Canada M5S 2T4.

EDRS PRICE MF01/PC04 Plus Postage.
DESCRIPTORS *College Buildings; Educational Facilities; Facility Guidelines; *Facility Inventory; Foreign Countries; Higher Education; *School Space; School Surveys; Space Classification; *Space Utilization
IDENTIFIERS Canada; *Ontario

ABSTRACT

Information on physical facilities of Ontario, Canada, universities for 1980-81 is presented. Summary data are provided on all net assignable footage (NASF), by institution, for categories of space covered by the Council on Ontario University (COU) space standards and for categories of space to which the standards do not apply. Information is also presented on space scheduled for demolition, space that has been privately funded for construction, and space that was being rented as of November, 1980. The costs associated with this rented space for the 1980-81 fiscal year are included. Additionally, there is a detailed breakdown of all NASF, by institution, for each of the 20 space categories defined by the Subcommittee on Space Coding. A distribution of NASF by age and excluding rentals is presented, along with present institutional space requirements as measured by COU revised space standards by comparison to actual inventory. Additionally, an analysis of space generated and inventories by space type and a summary of space generated and space inventoried per full-time-equivalent student are presented. (SW)

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ED207438

ISBN 0-88799-141-6

INVENTORY OF PHYSICAL FACILITIES

OF ONTARIO UNIVERSITIES

1980-81

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Prepared by the Research Division
of the
Council of Ontario Universities
Conseil des Universités de l'Ontario
130 St. George Street, Suite 8039
Toronto, Ontario M5S 2T4

July, 1981

81-7

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Introduction

In 1971 the Council of Ontario Universities (COU) established a number of task forces to examine questions relating to capital funding and the utilization of physical facilities within the Ontario universities. One of these task forces, the Task Force - Space and Utilization, was charged with developing and testing a space and utilization guide. In 1972 this task force published its findings in Volume 1 of the Building Blocks series of reports. At the time of publishing, however, the task force had not received comments from all of the universities and had been unable to revise its space and utilization guidelines where necessary. Accordingly, in November 1972 the COU Committee on Capital Financing established a standing subcommittee, the Subcommittee on Revisions to Building Blocks, to continue the work of its earlier task forces. Revised space standards developed by the subcommittee were adopted by COU at its meeting of 11 March 1977. A summary report of the work of the subcommittee was released in December 1978 as Volume 6 of the Building Blocks series.

Included in Volume 6 was an updated inventory of physical facilities of Ontario universities as of 1 November 1977. As COU had agreed that updated inventory data should be collected on a triennial basis, the present report contains data for 1980-81. The following tables present inventory data as of 1 November 1980 based on institutional submissions received in Spring 1981.

Table 1 is a summary of all net assignable square footage (NASF), by institution, for categories of space covered by COU space standards (categories 1 - 15) and for categories of space to which the standards do not apply (categories 17 - 20). The column labelled "Scheduled for Demolition" provides an indication of the NASF reported in categories 1- 15 which institutions are presently planning to demolish. The column labelled "Privately Funded" includes NASF (categories 1 - 15) for construction which has been privately funded and for space constructed prior to November 1971 which was not included in the "allocation inventory" that constituted a factor in the interim capital formula. The column labelled "NASF Rentals" reflects the space reported in categories 1 - 15 which was being rented as of November, 1980. The rental costs associated with this space, for the 1980-81 fiscal year are reported in the column "Rental Costs".

Table 2 presents a detailed breakdown of all NASF, by institution, for each of the 20 space categories defined by the Sub-Committee on Space Coding.

Table 3 presents a distribution of NASF (categories 1 - 15) by age and excluding rentals. Age was determined according to the year of completion of a building cited or the year of major renovation. The final column, "Average Age" is a weighted average.

Tables 4 - 23 present institutional space requirements as measured by COU revised space standards by comparison to actual inventory. It should be noted that the data in these and all subsequent tables includes space

scheduled for demolition, privately funded space and rentals. Further, no provision for age or quality has been made.

Tables 24 - 34 provide an analysis of space generated and inventoried by space type.

Table 35 summarizes space generated and space inventoried per FTE student.

Note: Data for the Ontario College of Art appear in this report for the first time. As a result, it should be noted that COU space standards were originally intended for application to multi-disciplinary institutions. Their application to OCA, particularly with respect to studio space, may not therefore be entirely appropriate. COU will examine this matter during the coming year.

Table 1

INVENTORY OF UNIVERSITY SPACE, November 1, 1980

Institution	NASF 1 - 15	NASF 17 - 20	Scheduled For Demolition	Privately Funded	NASF Rentals	Rental Costs
Brock	485002	69498		7068		
Carleton	1103127	234523				
Guelph	1478663	920944	133658	74935	3734	
Lakehead	468671	103241			960	960
Laurentian	437976					
McMaster	1295305	427369			2037	14544
Ottawa	1433018	278361	24181	15756	36474	175325
Queen's	1820111	749889		232010	11310	65288
Toronto	3944564	676898	251337	271735	139435	615476
Erindale	403595	110393				
Scarborough	329666	79171				
Trent	318820	229009				
Waterloo	1585113	826652		51998	59075	183082
Western	2155420	674561		187165		
WLU	365452	125673	12606	53776	9263	42647
Windsor	985897	257798			5932	5253
York	1513439	713662		4413		
Glendon	148768	85051				
Ryerson	916427	15136			40132	280000
OCA	96260					
Total	21285294	6577829	421782	898856	308352	1382575

DISTRIBUTION OF NASF BY MAJOR SPACE CATEGORY AND INSTITUTION, 1980-81

	Institution	Classroom Facilities	Lab - Undergrad.	Lab - Grad. & Faculty	Instruction Office & Related	Library & Study Faculties	Recreation/ Athletic Space	Food Service	Bookstore & Other Merch. Facilities	Plant Maintenance	Admin. Office & Related
1)	Brock	63403	82438	19149	70641	58064	56501	29585	4476	3335	25734
2)	Carleton	127844	188901	85653	206956	113687	92539	64875	19476	17614	83163
3)	Guelph	117359	310420	185232	210604	146612	78894	70305	27070	53288	114024
4)	Lakehead	45968	117279	33439	47621	56904	64311	22461	3974	10099	26063
5)	Laurentian	60950	57901	18630	55303	67075	68005	31301	5461	7046	28642
6)	McMaster	121427	177424	224139	168634	171633	97128	66495	10778	38293	96689
7)	Ottawa	170916	195074	158938	305644	175961	88436	45216	24990	10902	94108
8)	Queen's	178475	346499	237698	265772	230391	137422	75289	27865	26948	119381
9)	Toronto:										
	-St. George	356122	563749	660291	698493	632852	284090	108213	28794	60162	292455
	-Erindale	51087	53143	64176	46470	53628	25867	25350	5296	8019	21550
	-Scarborough	30775	69795	29968	42486	25619	37546	18385	4037	28848	13219
10)	Trent	26154	36445	24062	36094	61598	37106	35943	410	6223	24993
11)	Waterloo	154548	266323	285585	253022	141991	71066	84840	21785	50154	106651
12)	Western	228677	323488	258859	317648	253891	148544	120308	45294	45292	156863
13)	WLU	58496	24020	10389	46839	53094	47087	19737	6729	12903	30667
14)	Windsor	111019	195134	86661	152499	172118	61522	38962	12696	15607	46572
15)	York:										
	-York	198135	160615	117899	300043	233625	78970	80295	42464	11894	139335
	-Glendon	20000	8981	1701	21726	22415	28004	12600	3399	3118	8770
16)	Ryerson	132388	328102		104260	84305	35810	41772	7801	21882	61049
17)	OCA	9595	60025		6645	2655		1665	900	400	5135
	Total	2263338	3565756	2502469	3357400	2758118	1338848	993597	303695	432027	1495063

Table 2

Audio-Visual Television Facilities	Central Services	Health Service Facilities	Common Use & Student Activity Space	Assembly & Exhibition Facilities	SUB TOTAL	Non-Assignable Space	Residential Space	Animal Space	Other	Health Science Clinical Facilities	TOTAL	
2519	20662	745	25796	21954	485002	327339	68122		1376		881839	(1
10688	22612	4886	5[illegible]5	8119	1103128	710997	229379		5144		2048648	(2
9175	31880	5094	57756	60950	1478663	1291252	790547	81765	8280	40352	3690859	(3
857	11728	2018	16362	9586	468670	339361	103241				911272	(4
5768	10625	721	5107	15441	437976	18756					456732	(5
3732	53485	4839	43752	16857	1295305	587133	406906		20459	301400	2611203	(6
14455	22430	5234	75096	45640	1433040	843412	258802		19359		2554813	(7
2462	36097	6867	81716	47224	1820106	1259284	594255	3427	75698	76509	3829279	(8
18568	32379	6620	124790	76985	3944564	2623337	358536	1744	195188	121432	7244801	(9
1916	11119	1227	22368	12379	403595	281884	103794		6599		795872	
4683	4962	904	15511	2928	329666	220258	53003		26168		629095	
6342	3958	1056	18436		318820	273319	199044		29965		821148	(10
6307	52434	6536	53968	29930	1585140	1173008	805964		10401	10281	3584794	(11
7907	36821	6151	142959	62718	2155420	1324023	639837	23978	6756	3990	4154004	(12
2878	9910	1811	27068	13824	365452	216756	122761		2912		707881	(13
20777	9663	1892	45867	14908	985897	424588	255215		2583		1668283	(14
9516	23698	1408	92434	23108	1513439	1049961	705388		8274		3277062	(15
128	1956	2207	10751	3012	148768	120886	84114		937		354705	
19384	13283	1701	38440	26250	916427	150535			15136		1082098	(16
665	1670	245	2485	4175	96260	41475					137735	(17
148727	411372	62162	956777	495989	21285338	13277564	5778908	110914	435435	553964	41442123	

Table 3

AGE PROFILE OF ONTARIO UNIVERSITY SPACE,[1] November 1, 1980

Institution	NASF 0-9 Years	NASF 10-19 Years	NASF 20-29 Years	NASF 30-39 Years	NASF 40-49 Years	NASF 50 + Years	NASF Total	Average Age
Brock	189295	290983	3061		1663		485002	10.55
Carleton	241896	731242	129989				1103127	13.14
Guelph	329465	689297	204652	39414	19815	192286	1474929	20.44
Lakehead	104535	295223	67953				467711	13.16
Laurentian	115335	322641					437976	11.91
McMaster	318702	661586	260504	46282		6192	1293266	14.35
Ottawa	552865	262420	240589			340670	1396544	24.85
Queen's	606872	801848	224679	38935	28275	108192	1808801	16.26
Toronto	847607	1466268	446884	234027	58095	752248	3805129	25.33
Erindale	327728	74231	1636				403595	9.35
Scarborough	100484	228698	484				329666	9.44
Trent	89611	209313		1547		18349	318820	14.58
Waterloo	362051	1066662	97325				1526038	12.74
Western	759214	963569	247876	102190	24832	57739	2155420	14.76
WLU	147626	174853	21104	12606			356189	11.95
Windsor	239628	583951	76698	35660		44028	979965	15.90
York	253322	1260117					1513439	11.42
Glendon		136471				12297	148768	20.34
Ryerson	380759	281728	213809				876296	13.23
OCA	28620	35053				32587	96260	25.05
Total	5995615	10536154	2237243	510661	132680	1564588	20976941	17.02

[1] Excluding rentals

Table 4

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

BROCK

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	3141.9	13.0	40845	63403	155.2
Class Lab:	Lab Hours-Grp W		8.5			
	-Grp X	2499	6.5	16244		
	-Grp Y	2550	5.0	12750		
	-Grp Z	2059	3.0	6177		
				35171	82438	234.4
Research:	FTE Faculty - A	53.4	500	26700		
	+ 1/2 Grads - B		350			
	- C		200			
	- D		75			
	- E	132.8	0	0		
				26700	19149	71.7
Acad Office:	FTE Faculty	262	210	55020	68120	
	FTE Grads	165.5	40	6620	2521	
				61640	70641	114.6
Adm Office:	FTE Students	3141.9	9	28277	25734	91.0
Library:						
Stack	FTE Volumes	300000	0.08			
		148247	0.07			
		0	0.06			
				34377	30292	
Study	FTE U/Grads	2466.2	5.0			
	Prof U/Grads	510.2	12.0			
	FTE Grads	165.5	8.0			
				19777	15055	
Service Stack & Study		54154	0.25	13539	12717	
				67693	58064	85.8
Athletics:	FTE Students + 20,000 Base	3141.9	8.0	45135	56501	125.2
General Use:	FTE Students	3141.9	17.5	54983	81811	148.8
Special Use:	FTE Students	3141.9	6.0	18851	27261	144.6
Total				379295	485002	127.9

*Does not include a provision for age-quality discount.

Table 5

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

CARLETON

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	9708.4	13.0	126209	127844	101.3
Class Lab:	Lab Hours-Grp W	8389	8.5	71307	38077	
	-Grp X	11175	6.5	72638	89661	
	-Grp Y	3690.25	5.0	18451	41748	
	-Grp Z	3070.75	3.0	9212	19416	
				171608	188901	110.1
Research:	FTE Faculty - A	100.8	500	50400	43652	
	+ 1/2 Grads - B	150.3	350	52605	20850	
	- C	64.8	200	12960	11174	
	- D	42.95	75	3221	3987	
	- E	131.85	0	0	5991	
				119186	85653	71.9
Acad Office:	FTE Faculty	582.8	210	122396	158468	
	FTE Grads	1116.1	40	44644	48488	
				167040	206956	123.9
Adm Office:	FTE Students	9708.4	9	87376	83163	95.2
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		699105	0.06			
				86946	48582	
Study	FTE U/Grads	8592.3	5.0			
	Prof U/Grads		12.0			
	FTE Grads	1116.1	8.0			
				51890	34660	
Service Stack & Study		138836.6	0.25	34709	30445	
				173545	113687	65.5
Athletics:	FTE Students + 20,000 Base	9708.4	8.0	97667	92538	94.7
General Use:	FTE Students	9708.4	17.5	169897	148585	87.5
Special Use:	FTE Students	9708.4	6.0	58250	55800	95.8
Total				1170778	1103127	94.2

*Does not include a provision for age-quality discount.

Table 6

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

GUELPH (excluding OMAF)

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	9246.5	13.0	120205	117359	97.6
Class Lab:	Lab Hours-Grp W	15446	8.5	131291	132275	
	-Grp X	17116	6.5	111254	78040	
	-Grp Y	18957	5.0	94785	78768	
	-Grp Z	6394	3.0	19182	21337	
				356512	310420	87.1
Research:	FTE Faculty - A	576.01	500	288005	164280	
	+ 1/2 Grads - B	26.33	350	9216	6689	
	- C	58.92	200	11784	4662	
	- D	144.29	75	10822	7220	
	- E	294.34	0	0	2381	
				319827	185232	57.9
Acad Office:	FTE Faculty	742.9	210	156009	187087	
	FTE Grads	713.9	40	28556	23517	
				184565	210604	114.1
Adm Office:	FTE Students	9246.5	9	83219	114024	137.0
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		1118806	0.06			
				112128	54507	
Study	FTE U/Grads	8678.4	5.0			
	Prof U/Grads	568.1	12.0			
	FTE Grads	713.9	8.0			
				55920	63845	
Service Stack & Study		168048	0.25	42012	28260	
				210060	146612	69.8
Athletics:	FTE Students + 20,000 Base	9246.5	8.0	93972	78894	84.0
General Use:	FTE Students	9246.5	17.5	161814	216081	133.5
Special Use:	FTE Students	9246.5	6.0	55479	99437	179.2
Total				1585653	1478663	93.3

*Does not include a provision for age-quality discount.

Table 7

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

LAKEHEAD

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	3066	13.0	39858	45968	115.3
Class Lab:	Lab Hours-Grp W	6950	8.5	59075	50285	
	-Grp X	2709	6.5	17609	31455	
	-Grp Y	2376	5.0	11880	24461	
	-Grp Z	3109	3.0	9327	11079	
				97891	117280	119.8
Research:	FTE Faculty - A	54.17	500	27085	24851	
	+ 1/2 Grads - B	52.36	350	18326	1862	
	- C	26.73	200	5346	5569	
	- D	35.17	75	2638	1156	
	- E	164.71	0	0	0	
				53395	33438	62.6
Acad Office:	FTE Faculty	254.24	210	53390	45078	
	FTE Grads	158	40	6320	2543	
				59710	47621	79.8
Adm Office:	FTE Students	3066	9	27594	26063	94.5
Library:						
Stack	FTE Volumes	300000	0.08			
		76316	0.07			
			0.06			
				29342	20211	
Study	FTE U/Grads	2605	5.0			
	Prof U/Grads	303	12.0			
	FTE Grads	158	8.0			
				17925	31228	
Service Stack & Study		47267	0.25	11816	5465	
				59083	56904	96.3
Athletics:	FTE Students + 20,000 Base	3066	8.0	44528	64311	144.4
General Use:	FTE Students	3066	17.5	53655	52383	97.6
Special Use:	FTE Students	3066	6.0	18396	24702	134.3
Total				454110	468670	103.2

*Does not include a provision for age-quality discount.

Table 8

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

LAURENTIAN

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	2930	13.0	38090	60950	160.0
Class Lab:	Lab Hours-Grp W	757	8.5	6435		
	-Grp X	3144	6.5	20436		
	-Grp Y	1434	5.0	7170		
	-Grp Z	883	3.0	2649		
				36690	57901	157.8
Research:	FTE Faculty - A	70	500	35000		
	+ 1/2 Grads - B	6	350	2100		
	- C	14	200	2800		
	- D	51	75	3825		
	- E	159	0	0		
				43725	18630	42.6
Acad Office:	FTE Faculty	255	210	53550		
	FTE Grads	236	40	9440		
				62990	55303	87.8
Adm Office:	FTE Students	2930	9	26370	28642	108.6
Library:						
Stack	FTE Volumes	300000	0.08	24000		
		300000	0.07	21000		
		178718	0.06	10723		
				55723	31869	
Study	FTE U/Grads	1099	5.0	5495		
	Prof U/Grads	1595	12.0	19140		
	FTE Grads	236	8.0	1888		
				26523	18453	
Service Stack & Study		82246	0.25	20562	16753	
				102808	67075	65.2
Athletics:	FTE Students + 20,000 Base	2930	8.0	43440	68005	156.5
General Use:	FTE Students	2930	17.5	51275	57310	111.8
Special Use:	FTE Students	2930	6.0	17580	24160	137.4
Total				422968	437976	103.5

*Does not include a provision for age-quality discount.

Table 9

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

MCMASTER (Excluding Health Sciences)

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	9917.0	13.0	128921	121427	94.2
Class Lab:	Lab Hours-Grp W	6755	8.5	57417		
	-Grp X	12618	6.5	82017		
	-Grp Y	6524	5.0	32620		
	-Grp Z	1929	3.0	5787		
				177841	177424	99.8
Research:	FTE Faculty - A	192.72	500	96360	135003	
	+ 1/2 Grads - B	145.53	350	50935	50779	
	- C	42.48	200	8496	31342	
	- D	94.86	75	7114	6639	
	- E		0	0	376	
				162905	224139	137.6
Acad Office:	FTE Faculty	602.72	210	126571	131658	
	FTE Grads	1115	40	44600	36976	
				171171	168634	98.5
Adm Office:	FTE Students	9917.0	9	89253	96689	108.3
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		1379501	0.06			
				127770	78223	
Study	FTE U/Grads	8641	5.0			
	Prof U/Grads	157	12.0			
	FTE Grads	1115	8.0			
				54009	54057	
Service Stack & Study		181779	0.25	45445	39353	
				227224	171633	75.5
Athletics:	FTE Students + 20,000 Base	9917.0	8.0	99336	97128	97.8
General Use:	FTE Students	9917.0	17.5	173547	137882	79.4
Special Use:	FTE Students	9917.0	6.0	59502	100349	168.6
Total				1289700	1295305	100.4

*Does not include a provision for age-quality discount.

Table 10

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

OTTAWA

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	13249	13.0	172237	170916	99.2
Class Lab:	Lab Hours-Grp W	4403	8.5	37426		
	-Grp X	14319	6.5	93074		
	-Grp Y	4422	5.0	22110		
	-Grp Z	8183	3.0	24549		
				177159	195074	110.1
Research:	FTE Faculty - A	207	500	103500		
	+ 1/2 Grads - B	122	350	42700		
	- C	109	200	21800		
	- D	121	75	9075		
	- E	1128	0	0		
				177075	158938	89.8
Acad Office:	FTE Faculty	909	210	190890	282127	
	FTE Grads	1556	40	62240	23517	
				253130	305644	120.7
Adm Office:	FTE Students	13249	9	119241	94108	78.9
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		895985	0.06			
				98759	92567	
Study	FTE U/Grads	10390	5.0			
	Prof U/Grads	1303	12.0			
	FTE Grads	1556	8.0			
				80034	42730	
Service Stack & Study		178793	0.25	44698	40664	
				223491	175961	78.7
Athletics:	FTE Students	13249	8.0	125992	88436	70.2
	+ 20,000 Base					
General Use:	FTE Students	13249	17.5	231858	190942	82.4
Special Use:	FTE Students	13249	6.0	79494	53021	66.7
Total				1559677	1433040	91.9

*Does not include a provision for age-quality discount.

Table 11

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

QUEEN'S

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	12197	13.0	158561	178475	112.6
Class Lab:	Lab Hours-Grp W	7064	8.5	60044	105751	
	-Grp X	27262	6.5	177203	121257	
	-Grp Y	11289	5.0	56445	74820	
	-Grp Z	13434	3.0	40302	34671	
				333994	346499	103.7
Research:	FTE Faculty - A	290.9	500	145450	140723	
	+ 1/2 Grads - B	144.7	350	50645	46201	
	- C	72.0	200	14400	14732	
	- D	64.8	75	4860	8614	
	- E		0	0	27428	
				215355	237698	110.4
Acad Office:	FTE Faculty	762.9	210	160209	227796	
	FTE Grads	1243.5	40	49740	37976	
				209949	265772	126.6
Adm Office:	FTE Students	12197	9	109773	119381	108.8
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		1200000	0.06			
				117000	73689	
Study	FTE U/Grads	9431.6	5.0			
	Prof U/Grads	1522.3	12.0			
	FTE Grads	1243.5	8.0			
				75374	114103	
Service Stack & Study		192374	0.25	48094	42600	
				240468	230392	95.8
Athletics:	FTE Students + 20,000 Base	12197	8.0	117576	137422	116.9
General Use:	FTE Students	12197	17.5	213448	232094	108.7
Special Use:	FTE Students	12197	6.0	73182	72374	98.9
Total				1672306	1820107	108.8

*Does not include a provision for age-quality discount.

Table 12

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

TORONTO - ST. GEORGE

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	26217	13.0	340821	356122	104.5
Class Lab:	Lab Hours-Grp W	11951	8.5	101584	111359	
	-Grp X	42370	6.5	275405	342067	
	-Grp Y	11344	5.0	56720	94575	
	-Grp Z	7517	3.0	22551	15748	
				456260	563749	123.6
Research:	FTE Faculty - A	847	500	423500	438041	
	+ 1/2 Grads - B	721	350	252350	181776	
	- C	58	200	11600	15953	
	- D	306	75	22950	14898	
	- E	2450	0	0	9623	
				710400	660291	92.9
Acad Office:	FTE Faculty	2037	210	427770	599623	
	FTE Grads	4690	40	187600	98870	
				615370	698493	113.5
Adm Office:	FTE Students	26217	9	235953	292455	123.9
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		4395855	0.06			
				308751	280732	
Study	FTE U/Grads	16292	5.0			
	Prof U/Grads	5235	12.0			
	FTE Grads	4690	8.0			
				181800	201399	
Service Stack & Study		490551	0.25	122638	150721	
				613189	632852	103.2
Athletics:	FTE Students + 20,000 Base	26217	8.0	229736	284090	123.7
General Use:	FTE Students	26217	17.5	458798	338783	73.8
Special Use:	FTE Students	26217	6.0	157302	117729	74.8
Total				3817829	3944564	103.3

*Does not include a provision for age-quality discount.

Table 13

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

TORONTO - ERINDALE

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	3753	13.0	48789	51087	104.7
Class Lab:	Lab Hours-Grp W		8.5			
	-Grp X	3282	6.5	21333	20194	
	-Grp Y	2917	5.0	14585	27879	
	-Grp Z	870	3.0	2610	5070	
				38528	53143	137.9
Research:	FTE Faculty - A	55	500	27500	46286	
	+ 1/2 Grads - B		350			
	- C	15	200	3000	9386	
	- D	14	75	1050	4360	
	- E	114	0		4144	
				31550	64176	203.4
Acad Office:	FTE Faculty	198	210	41580	43165	
	FTE Grads		40		3305	
				41580	46470	111.8
Adm Office:	FTE Students	3753	9	33777	21550	63.8
Library:						
Stack	FTE Volumes	289075	0.08			
			0.07			
			0.06			
				23126	14360	
Study	FTE U/Grads	3753	5.0			
	Prof U/Grads		12.0			
	FTE Grads		8.0			
				18765	27858	
Service Stack & Study		41891	0.25	10473	11410	
				52364	53628	102.4
Athletics:	FTE Students + 20,000 Base	3753	8.0	50024	25867	51.7
General Use:	FTE Students	3753	17.5	65678	65393	99.6
Special Use:	FTE Students	3753	6.0	22518	22281	98.9
Total				384808	403595	104.9

*Does not include a provision for age-quality discount.

Table 14

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

TORONTO - SCARBOROUGH

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	3456	13.0	44928	30775	68.5
Class Lab:	Lab Hours-Grp W		8.5			
	-Grp X	1912	6.5	12428	26103	
	-Grp Y	3352	5.0	16760	40097	
	-Grp Z	619	3.0	1857	3595	
				31045	69795	224.8
Research:	FTE Faculty - A	48	500	24000	20366	
	+ 1/2 Grads - B		350			
	- C	13	200	2600	5641	
	- D	20	75	1500	3961	
	- E	126	0	0		
				28100	29968	106.6
Acad Office:	FTE Faculty	207	210	43470	40581	
	FTE Grads		40		1905	
				43470	42486	97.7
Adm Office:	FTE Students	3456	9	31104	13219	42.5
Library:						
Stack	FTE Volumes	255205	0.08			
			0.07			
			0.06			
				20416	12239	
Study	FTE U/Grads	3456	5.0			
	Prof U/Grads		12.0			
	FTE Grads		8.0			
				17280	9333	
Service Stack & Study		37696	0.25	9424	4047	
				47120	25619	54.4
Athletics:	FTE Students + 20,000 Base	3456	8.0	47648	37546	78.8
General Use:	FTE Students	3456	17.5	60480	40861	67.6
Special Use:	FTE Students	3456	6.0	20736	39397	190.0
Total				354631	329666	93.0

*Does not include a provision for age-quality discount.

Table 15

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

TRENT

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	2301	13.0	29913	26154	87.4
Class Lab:	Lab Hours-Grp W		8.5			
	-Grp X	650	6.5	4225	13962	
	-Grp Y	3111	5.0	15555	20997	
	-Grp Z	724	3.0	2172	1486	
				21952	36445	166.0
Research:	FTE Faculty - A	25.3	500	12650	17982	
	+ 1/2 Grads - B		350			
	- C	14.7	200	2940	4308	
	- D	30.6	75	2295	1772	
	- E	110.1	0	0		
				17885	24062	134.5
Acad Office:	FTE Faculty	181	210	38010	36094	
	FTE Grads	22	40	880	0	
				38890	36094	92.8
Adm Office:	FTE Students	2301	9	20709	24993	120.7
Library:						
Stack	FTE Volumes	300000	0.08			
		167677	0.07			
			0.06			
				35737	29980	
Study	FTE U/Grads	2279	5.0			
	Prof U/Grads		12.0			
	FTE Grads	22	8.0			
				11571	11773	
Service Stack & Study		47308	0.25	11827	19845	
				59135	61598	104.2
Athletics:	FTE Students + 20,000 Base	2301	8.0	38408	37106	96.6
General Use:	FTE Students	2301	17.5	40268	54789	136.1
Special Use:	FTE Students	2301	6.0	13806	17579	127.3
Total				280966	318820	113.5

*Does not include a provision for age-quality discount.

Table 16

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

WATERLOO

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	14191	13.0	184483	154547	83.8
Class Lab:	Lab Hours-Grp W	10087	8.5	85740	58617	
	-Grp X	17653	6.5	114744	113485	
	-Grp Y	9283	5.0	46415	66039	
	-Grp Z	8387	3.0	25161	28181	
				272060	266322	97.9
Research:	FTE Faculty - A	215.88	500	107940	103434	
	+ 1/2 Grads - B	343.37	350	120180	125813	
	- C	95.12	200	19024	37790	
	- D	202.39	75	15179	10814	
	- E	545.14	0	0	7734	
				262323	285585	108.9
Acad Office:	FTE Faculty	760	210	159600	192280	
	FTE Grads	1285	40	51400	60742	
				211000	253022	119.9
Adm Office:	FTE Students	14191	9	127719	106651	83.5
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		667145	0.06			
				85028	56589	
Study	FTE U/Grads	12669	5.0			
	Prof U/Grads	237	12.0			
	FTE Grads	1285	8.0			
				76469	56562	
Service Stack & Study		161497	0.25	40374	28840	
				201871	141991	70.3
Athletics:	FTE Students + 20,000 Base	14191	8.0	133528	71066	53.2
General Use:	FTE Students	14191	17.5	248342	190523	76.7
Special Use:	FTE Students	14191	6.0	85146	115431	135.6
Total				1726472	1585138	91.8

*Does not include a provision for age-quality discount.

Table 17

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

WESTERN

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	17213.7	13.0	223778	228677	102.2
Class Lab:	Lab Hours-Grp W	5021	8.5	42679		
	-Grp X	17024	6.5	110656		
	-Grp Y	14735	5.0	73675		
	-Grp Z	9657	3.0	28971		
				255981	323488	126.4
Research:	FTE Faculty - A	433.35	500	216675		
	+ 1/2 Grads - B	82.55	350	28893		
	- C	86.15	200	17230		
	- D	189.75	75	14231		
	- E	1328.65	0	0		
				277029	258859	93.4
Acad Office:	FTE Faculty	1164.6	210	244566	274272	
	FTE Grads	1911.7	40	76468	43376	
				321034	317648	98.9
Adm Office:	FTE Students	17213.7	9	154923	156863	101.3
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		1021973	0.06			
				106318	111982	
Study	FTE U/Grads	13160.6	5.0			
	Prof U/Grads	2141.4	12.0			
	FTE Grads	1911.7	8.0			
				106793	102957	
Service Stack & Study		213111	0.25	53278	38952	
				266389	253891	95.3
Athletics:	FTE Students + 20,000 Base	17213.7	8.0	157710	148544	94.2
General Use:	FTE Students	17213.7	17.5	301240	371279	123.3
Special Use:	FTE Students	17213.7	6.0	103282	96171	93.1
Total				2061366	2155420	104.6

*Does not include a provision for age-quality discount.

Table 18

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

WILFRID LAURIER

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	4362.9	13.0	56718	58496	103.1
Class Lab:	Lab Hours-Grp W		8.5			
	-Grp X	1047	6.5	6805	15349	
	-Grp Y	2148	5.0	10740	7301	
	-Grp Z	1860	3.0	5580	1370	
				23125	24020	103.9
Research:	FTE Faculty - A	19	500	9500	2664	
	+ 1/2 Grads - B		350			
	- C	29.9	200	5980	3208	
	- D	41.05	75	3079	3775	
	- E	320.4	0		742	
				18559	10389	56.0
Acad Office:	FTE Faculty	273.35	210	57403	44230	
	FTE Grads	289.6	40	11584	2609	
				68987	46839	67.9
Adm Office:	FTE Students	4362.9	9	39266	30667	78.1
Library:						
Stack	FTE Volumes	300000	0.08			
		178572	0.07			
			0.06			
				36500	24917	
Study	FTE U/Grads	4073.3	5.0			
	Prof U/Grads		12.0			
	FTE Grads	289.6	8.0			
				22684	19385	
Service Stack & Study		59184	0.25	14796	8792	
				73980	53094	71.8
Athletics:	FTE Students + 20,000 Base	4362.9	8.0	54903	47087	85.8
General Use:	FTE Students	4362.9	17.5	76351	67358	88.2
Special Use:	FTE Students	4362.9	6.0	26177	27502	105.1
Total				438066	365452	83.4

*Does not include a provision for age-quality discount.

Table 19

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

WINDSOR

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	7720.2	13.0	100363	111019	110.6
Class Lab:	Lab Hours-Grp W	5166.5	8.5	43915	45684	
	-Grp X	3168.96	6.5	20598	75910	
	-Grp Y	5567.15	5.0	27836	45723	
	-Grp Z	3536.5	3.0	10610	27817	
				102959	195134	189.5
Research:	FTE Faculty - A	124.2	500	62100	58112	
	+ 1/2 Grads - B	86.3	350	30205	15139	
	- C	63.3	200	12660	10073	
	- D	141.6	75	10620	2992	
	- E	446.8	0		345	
				115585	86661	75.0
Acad Office:	FTE Faculty	542.8	210	113988	139577	
	FTE Grads	662.8	40	26512	12922	
				140500	152499	108.5
Adm Office:	FTE Students	7720.2	9	69482	46572	67.0
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		653678	0.06			
				84221	73465	
Study	FTE U/Grads	6110.3	5.0			
	Prof U/Grads	947.1	12.0			
	FTE Grads	662.8	8.0			
				47219	52825	
Service Stack & Study		131439.8	0.25	32860	45827	
				164300	172118	104.8
Athletics:	FTE Students + 20,000 Base	7720.2	8.0	81762	61522	75.2
General Use:	FTE Students	7720.2	17.5	135103	112433	83.2
Special Use:	FTE Students	7720.2	6.0	46321	47939	103.5
Total				956375	985897	103.1

*Does not include a provision for age-quality discount.

Table 20

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

YORK - YORK CAMPUS

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	14443.8	13.0	187769	198135	105.5
Class Lab:	Lab Hours-Grp W		8.5			
	-Grp X	28493	6.5	185204	117363	
	-Grp Y	3829	5.0	19145	23013	
	-Grp Z	6934	3.0	20802	20239	
				225151	160615	71.3
Research:	FTE Faculty - A	159.49	500	79745	73564	
	+ 1/2 Grads - B		350			
	- C	135.48	200	27096	20135	
	- D	204.05	75	15304	18176	
	- E	1341.39	0	0	6024	
				122145	117899	96.5
Acad Office:	FTE Faculty	967.2	210	203114	264531	
	FTE Grads	1746.4	40	69856	35512	
				272970	300043	109.9
Adm Office:	FTE Students	14443.8	9	129994	139335	107.2
Library:						
Stack	FTE Volumes	300000	0.08			
		300000	0.07			
		909345	0.06			
				99561	82750	
Study	FTE U/Grads	11334.4	5.0			
	Prof U/Grads	1363.0	12.0			
	FTE Grads	1746.4	8.0			
				86999	78955	
Service Stack & Study		186560	0.25	46640	71920	
				233200	233625	100.2
Athletics:	FTE Students + 20,000 Base	14443.8	8.0	135550	78970	58.3
General Use:	FTE Students	14443.8	17.5	252766	238301	94.3
Special Use:	FTE Students	14443.8	6.0	86663	46516	53.7
Total				1646208	1513439	91.9

*Does not include a provision for age-quality discount.

Table 21

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

YORK - GLENDON

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	1009.4	13.0	13122	20000	152.4
Class Lab:	Lab Hours-Grp W		8.5			
	-Grp X	1260	6.5	8190	2997	
	-Grp Y	792	5.0	3960	1540	
	-Grp Z	4107	3.0	12321	4444	
				24471	8981	36.7
Research:	FTE Faculty - A		500		1600	
	+ 1/2 Grads - B		350			
	- C	7.0	200	1400	101	
	- D		75			
	- E	99.88	0	0		
				1400	1701	121.5
Acad Office:	FTE Faculty	106.88	210	22445	21726	
	FTE Grads		40			
				22445	21726	96.8
Adm Office:	FTE Students	1009.4	9	9085	8770	96.5
Library:						
Stack	FTE Volumes	217351	0.08			
			0.07			
			0.06			
				17388	8254	
Study	FTE U/Grads	1009.4	5.0			
	Prof U/Grads		12.0			
	FTE Grads		8.0			
				5047	10463	
Service Stack & Study		22435	0.25	5609	3698	
				28044	22415	79.9
Athletics:	FTE Students + 20,000 Base	1009.4	8.0	28075	28004	99.7
General Use:	FTE Students	1009.4	17.5	17664	29762	168.4
Special Use:	FTE Students	1009.4	6.0	6056	7409	122.3
Total				150362	148768	98.9

*Does not include a provision for age-quality discount.

Table 22

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

RYERSON

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	11003.4	13.0	143045	132388	92.5
Class Lab:	Lab Hours-Grp W	17136	8.5	145656	116404	
	-Grp X	31926	6.5	207519	154544	
	-Grp Y	11400	5.0	57000	21279	
	-Grp Z	19424	3.0	58272	35875	
				468447	328102	70.0
Research:	FTE Faculty - A		500			
	+ 1/2 Grads - B		350			
	- C		200			
	- D		75			
	- E		0			
Acad Office:	FTE Faculty	738	210	154980	104260	
	FTE Grads		40			
				154980	104260	67.3
Adm Office:	FTE Students	11003.4	9	99031	61049	61.6
Library:						
Stack	FTE Volumes	300000	0.08			
		54170	0.07			
			0.06			
				27792		
Study	FTE U/Grads	11003.4	5.0			
	Prof U/Grads		12.0			
	FTE Grads		8.0			
				55017	60415	
Service Stack & Study		82809	0.25	20702	23890	
				103511	84305	81.4
Athletics:	FTE Students + 20,000 Base	11003.4	8.0	108027	35810	33.1
General Use:	FTE Students	11003.4	17.5	192560	114263	59.3
Special Use:	FTE Students	11003.4	6.0	66021	56250	85.2
Total				1335622	916427	68.6

*Does not include a provision for age-quality discount.

Table 23

INSTITUTIONAL SPACE REQUIREMENTS AS MEASURED BY COU REVISED SPACE STANDARDS, 1980-81*

OCA

Category		Input Measure	Space Factor	Space Generated	Inventory	% I/G
Classroom:	FTE Students	1708	13.0	22204	9595	43.2
Class Lab:	Lab Hours-Grp W		8.5			
	-Grp X	38812	6.5	252278		
	-Grp Y		5.0			
	-Grp Z		3.0			
				252278	60025	23.8
Research:	FTE Faculty - A		500			
	+ 1/2 Grads - B		350			
	- C		200			
	- D		75			
	- E		0			
Acad Office:	FTE Faculty	104	210	21840	6645	
	FTE Grads		40			
				21840	6645	30.4
Adm Office:	FTE Students	1708	9	15372	5135	33.4
Library:						
Stack	FTE Volumes	16707	0.08			
			0.07			
			0.06			
				1336	1745	
Study	FTE U/Grads	1708	5.0			
	Prof U/Grads		12.0			
	FTE Grads		8.0			
				8540	360	
Service Stack & Study		9876	0.25	2469	550	
				12345	2655	21.5
Athletics:	FTE Students + 20,000 Base	1708	8.0	33664		
General Use:	FTE Students	1708	17.5	29890	9225	30.9
Special Use:	FTE Students	1708	6.0	10248	2980	29.1
Total				397841	96260	24.2

*Does not include a provision for age-quality discount.

Table 24

GENERATED AND INVENTORY SPACE BY TYPE: CLASSROOMS, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	13.0	40845	63403	155.2
Carleton	9708.4	13.0	126209	127844	101.3
Guelph	9246.5	13.0	120205	117359	97.6
Lakehead	3066.0	13.0	39858	45968	115.3
Laurentian	2930.0	13.0	38090	60950	160.0
McMaster	9917.0	13.0	128921	121427	94.2
Ottawa	13249.0	13.0	172237	170916	99.2
Queen's	12197.0	13.0	158561	178478	112.6
Toronto	26217.0	13.0	340821	356122	104.5
Erindale	3753.0	13.0	48789	51087	104.7
Scarborough	3456.0	13.0	44928	30775	68.5
Trent	2301.0	13.0	29913	26154	87.4
Waterloo	14191.0	13.0	184483	154547	83.8
Western	17213.7	13.0	223778	228677	102.2
WLU	4362.9	13.0	56718	58496	103.1
Windsor	7720.2	13.0	100363	111019	110.6
York	14443.8	13.0	187769	198135	105.5
Glendon	1009.4	13.0	13122	20000	152.4
Ryerson	11003.4	13.0	143045	132388	92.5
OCA	1708.0	13.0	22204	9595	43.2
Total	170835.2	13.0	2220859	2263340	101.9

Table 25

CLASS LAB SPACE GENERATED PER LAB CONTACT HOUR, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	7108	4.9	35171	82438	234.4
Carleton	26325	6.5	171608	188901	110.1
Guelph	57913	6.2	356512	310420	87.1
Lakehead	15144	6.5	97891	117280	119.8
Laurentian	6218	5.9	36690	57901	157.8
McMaster	27826	6.4	177841	177424	99.8
Ottawa	31327	5.7	177159	195074	110.1
Queen's	59049	5.7	333994	346500	103.7
Toronto	73182	6.2	456260	563749	123.6
Erindale	7069	5.5	38528	53143	137.9
Scarborough	5883	5.3	31045	69795	224.8
Trent	4485	4.9	21952	36445	166.0
Waterloo	45410	6.0	272060	266324	97.9
Western	46437	5.5	255981	323488	126.4
WLU	5055	4.6	23125	24020	103.9
Windsor	17439	5.9	102959	195134	189.5
York	39256	5.7	225151	160615	71.3
Glendon	6159	4.0	24471	8981	36.7
Ryerson	79886	5.9	468447	328102	70.0
OCA	38812	6.5	252278	60025	23.8
Total	599983	5.9	3559123	3565759	100.2

Table 26

CLASS LAB SPACE GENERATED PER FTE STUDENT, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	11.2	35171	82438	234.4
Carleton	9708.4	17.7	171608	188901	110.1
Guelph	9246.5	38.6	356512	310420	87.1
Lakehead	3066.0	31.9	97891	117280	119.8
Laurentian	2930.0	12.5	36690	57901	157.8
McMaster	9917.0	17.9	177841	177424	99.8
Ottawa	13249.0	13.4	177159	195074	110.1
Queen's	12197.0	27.4	333994	346500	103.7
Toronto	26217.0	17.4	456260	563749	123.6
Erindale	3753.0	10.3	38528	53143	137.9
Scarborough	3456.0	9.0	31045	69795	224.8
Trent	2301.0	9.5	21952	36445	166.0
Waterloo	14191.0	19.2	272060	266324	97.9
Western	17213.7	14.9	255981	323488	126.4
WLU	4362.9	5.3	23125	24020	103.9
Windsor	7720.2	13.3	102959	195134	189.5
York	14443.8	15.6	225151	160615	71.3
Glendon	1009.4	24.2	24471	8981	36.7
Ryerson	11003.4	42.6	468447	328102	70.0
OCA	1708.0	147.7	252278	60025	23.8
Total	170835.2	20.8	3559123	3565759	100.2

Table 27

RESEARCH SPACE GENERATED PER FTE STUDENT, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	8.5	26700	19149	71.7
Carleton	9708.4	12.3	119186	85653	71.9
Guelph	9246.5	34.6	319827	185232	57.9
Lakehead	3066.0	17.4	53395	33438	62.6
Laurentian	2930.0	14.9	43725	18630	42.6
McMaster	9917.0	16.4	162905	224139	137.6
Ottawa	13249.0	13.4	177075	158938	89.8
Queen's	12197.0	17.7	215355	237698	110.4
Toronto	26217.0	27.1	710400	660291	92.9
Erindale	3753.0	8.4	31550	64176	203.4
Scarborough	3456.0	8.1	28100	29968	106.6
Trent	2301.0	7.8	17885	24062	134.5
Waterloo	14191.0	18.5	262323	285585	108.9
Western	17213.7	16.1	277029	258859	93.4
WLU	4362.9	4.3	18559	10389	56.0
Windsor	7720.2	15.0	115585	86661	75.0
York	14443.8	8.5	122145	117899	96.5
Glendon	1009.4	1.4	1400	1701	121.5
Ryerson					
OCA					
Total	158123.8	17.1	2703144	2502468	92.6

Table 28

RESEARCH SPACE GENERATED PER FTE FACULTY, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	262.0	101.9	26700	19149	71.7
Carleton	582.8	204.5	119186	85653	71.9
Guelph	742.9	430.5	319827	185232	57.9
Lakehead	254.2	210.1	53395	33438	62.6
Laurentian	255.0	171.5	43725	18630	42.6
McMaster	602.7	270.3	162905	224139	137.6
Ottawa	909.0	194.8	177075	158938	89.8
Queen's	762.9	282.3	215355	237698	110.4
Toronto	2037.0	348.7	710400	660291	92.9
Erindale	198.0	159.3	31550	64176	203.4
Scarborough	207.0	135.7	28100	29968	106.6
Trent	181.0	98.8	17885	24062	134.5
Waterloo	760.0	345.2	262323	285585	108.9
Western	1164.6	237.9	277029	258859	93.4
WLU	273.4	67.9	18559	10389	56.0
Windsor	542.8	212.9	115585	86661	75.0
York	967.2	126.3	122145	117899	96.5
Glendon	106.9	13.1	1400	1701	121.5
Ryerson					
OCA					
Total	10809.4	250.1	2703144	2502468	92.6

Table 29

ACADEMIC OFFICE SPACE GENERATED PER FTE STUDENT, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	19.6	61640	70641	114.6
Carleton	9708.4	17.2	167040	206956	123.9
Guelph	9246.5	20.0	184565	210604	114.1
Lakehead	3066.0	19.5	59710	47621	79.8
Laurentian	2930.0	21.5	62990	55303	87.8
McMaster	9917.0	17.3	171171	168634	98.5
Ottawa	13249.0	19.1	253130	305644	120.7
Queen's	12197.0	17.2	209949	265772	126.6
Toronto	26217.0	23.5	615370	698493	113.5
Erindale	3753.0	11.1	41580	46470	111.8
Scarborough	3456.0	12.6	43470	42486	97.7
Trent	2301.0	16.9	38890	36094	92.8
Waterloo	14191.0	14.9	211000	253022	119.9
Western	17213.7	18.6	321034	317648	98.9
WLU	4362.9	15.8	68987	46839	67.9
Windsor	7720.2	18.2	140500	152499	108.5
York	14443.8	18.9	272970	300043	109.9
Glendon	1009.4	22.2	22445	21726	96.8
Ryerson	11003.4	14.1	154980	104260	67.3
OCA	1708.0	12.8	21840	6645	30.4
Total	170835.2	18.3	3123261	3357400	107.5

Table 30

ADMINISTRATION OFFICE SPACE GENERATED, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	9.0	28277	25734	91.0
Carleton	9708.4	9.0	87376	83163	95.2
Guelph	9246.5	9.0	83219	114024	137.0
Lakehead	3066.0	9.0	27594	26063	94.5
Laurentian	2930.0	9.0	26370	28642	108.6
McMaster	9917.0	9.0	89253	96689	108.3
Ottawa	13249.0	9.0	119241	94108	78.9
Queen's	12197.0	9.0	109773	119381	108.8
Toronto	26217.0	9.0	235953	292455	123.9
Erindale	3753.0	9.0	33777	21550	63.8
Scarborough	3456.0	9.0	31104	13219	42.5
Trent	2301.0	9.0	20709	24993	120.7
Waterloo	14191.0	9.0	127719	106651	83.5
Western	17213.7	9.0	154923	156863	101.3
WLU	4362.9	9.0	39266	30667	78.1
Windsor	7720.2	9.0	69482	46572	67.0
York	14443.8	9.0	129994	139335	107.2
Glendon	1009.4	9.0	9085	8770	96.5
Ryerson	11003.4	9.0	99031	61049	61.6
OCA	1708.0	9.0	15372	5135	33.4
Total	170835.2	9.0	1537518	1495063	97.2

Table 31

LIBRARY SPACE GENERATED PER FTE STUDENT, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	21.5	67693	58064	85.8
Carleton	9708.4	17.9	173546	113687	65.5
Guelph	9246.5	22.7	210060	146612	69.8
Lakehead	3066.0	19.3	59083	56904	96.3
Laurentian	2930.0	35.1	102808	67075	65.2
McMaster	9917.0	22.9	227224	171633	75.5
Ottawa	13249.0	16.9	223491	175961	78.7
Queen's	12197.0	19.7	240468	230392	95.8
Toronto	26217.0	23.4	613189	632852	103.2
Erindale	3753.0	14.0	52364	53628	102.4
Scarborough	3456.0	13.6	47120	25619	54.4
Trent	2301.0	25.7	59135	61598	104.2
Waterloo	14191.0	14.2	201871	141991	70.3
Western	17213.7	15.5	266389	253891	95.3
WLU	4362.9	17.0	73980	53094	71.8
Windsor	7720.2	21.3	164300	172118	104.8
York	14443.8	16.1	233200	233625	100.2
Glendon	1009.4	27.8	28044	22415	79.9
Ryerson	11003.4	9.4	103511	84305	81.4
OCA	1708.0	7.2	12345	2655	21.5
Total	170835.2	18.5	3159821	2758119	87.3

Table 32

ATHLETICS SPACE GENERATED PER FTE STUDENT, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	14.4	45135	56501	125.2
Carleton	9708.4	10.1	97667	92538	94.7
Guelph	9246.5	10.2	93972	78894	84.0
Lakehead	3066.0	14.5	44528	64311	144.4
Laurentian	2930.0	14.8	43440	68005	156.5
McMaster	9917.0	10.0	99336	97128	97.8
Ottawa	13249.0	9.5	125992	88436	70.2
Queen's	12197.0	9.6	117576	137422	116.9
Toronto	26217.0	8.8	229736	284090	123.7
Erindale	3753.0	13.3	50024	25867	51.7
Scarborough	3456.0	13.8	47648	37546	78.8
Trent	2301.0	16.7	38408	37106	96.6
Waterloo	14191.0	9.4	133528	71065	53.2
Western	17213.7	9.2	157710	148544	94.2
WLU	4362.9	12.6	54903	47087	85.8
Windsor	7720.2	10.6	81762	61522	75.2
York	14443.8	9.4	135550	78970	58.3
Glendon	1009.4	27.8	28075	28004	99.7
Ryerson	11003.4	9.8	108027	35810	33.1
OCA	1708.0	19.7	33664		
Total	170835.2	10.3	1766681	1538846	87.1

Table 33

GENERAL USE SPACE GENERATED, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	17.5	54983	81811	148.8
Carleton	9708.4	17.5	169897	148585	87.5
Guelph	9246.5	17.5	161814	216081	133.5
Lakehead	3066.0	17.5	53655	52383	97.6
Laurentian	2930.0	17.5	51275	57310	111.8
McMaster	9917.0	17.5	173547	137882	79.4
Ottawa	13249.0	17.5	231858	190942	82.4
Queen's	12197.0	17.5	213448	232094	108.7
Toronto	26217.0	17.5	458798	338783	73.8
Erindale	3753.0	17.5	65678	65393	99.6
Scarborough	3456.0	17.5	60480	40861	67.6
Trent	2301.0	17.5	40268	54789	136.1
Waterloo	14191.0	17.5	248342	190523	76.7
Western	17213.7	17.5	301240	371279	123.3
WLU	4362.9	17.5	76351	67358	88.2
Windsor	7720.2	17.5	135103	112433	83.2
York	14443.8	17.5	252766	238301	94.3
Glendon	1009.4	17.5	17664	29762	168.4
Ryerson	11003.4	17.5	192560	114263	59.3
OCA	1708.0	17.5	29890	9225	30.9
Total	170835.2	17.5	2989617	2750058	92.0

Table 34

SPECIAL USE SPACE GENERATED, 1980-81

Institution	Input Measure	Space Factor	Space Generated	Inventory	% I/G
Brock	3141.9	6.0	18851	27261	144.6
Carleton	9708.4	6.0	58250	55800	95.8
Guelph	9246.5	6.0	55479	99437	179.2
Lakehead	3066.0	6.0	18396	24702	134.3
Laurentian	2930.0	6.0	17580	24160	137.4
McMaster	9917.0	6.0	59502	100349	168.6
Ottawa	13249.0	6.0	79494	53021	66.7
Queen's	12197.0	6.0	73182	72374	98.9
Toronto	26217.0	6.0	157302	117729	74.8
Erindale	3753.0	6.0	22518	22281	98.9
Scarborough	3456.0	6.0	20736	39397	190.0
Trent	2301.0	6.0	13806	17579	127.3
Waterloo	14191.0	6.0	85146	115431	135.6
Western	17213.7	6.0	103282	96171	93.1
WLU	4362.9	6.0	26177	27502	105.1
Windsor	7720.2	6.0	46321	47939	103.5
York	14443.8	6.0	86663	46516	53.7
Glendon	1009.4	6.0	6056	7409	122.3
Ryerson	11003.4	6.0	66021	56250	85.2
OCA	1708.0	6.0	10248	2980	29.1
Total	170835.2	6.0	1025010	1054288	102.9

Table 35

TOTAL SPACE GENERATED PER FTE STUDENT, 1980-81

Institution	Input Measure	Space Generated	Generated Per FTE	Inventory	Inventory Per FTE	% I/G
Brock	3141.9	379295	120.7	485002	154.4	127.9
Carleton	9708.4	1170778	120.6	1103127	113.6	94.2
Guelph	9246.5	1585653	171.5	1478663	159.9	93.3
Lakehead	3066.0	454110	148.1	468670	152.9	103.2
Laurentian	2930.0	422968	144.4	437976	149.5	103.5
McMaster	9917.0	1289700	130.0	1295305	130.6	100.4
Ottawa	13249.0	1559677	117.7	1433040	108.2	91.9
Queen's	12197.0	1672306	137.1	1820111	149.2	108.8
Toronto	26217.0	3817829	145.6	3944564	150.5	103.3
Erindale	3753.0	384808	102.5	403595	107.5	104.9
Scarborough	3456.0	354631	102.6	329666	95.4	93.0
Trent	2301.0	280966	122.1	318820	138.6	113.5
Waterloo	14191.0	1726472	121.7	1585139	111.7	91.8
Western	17213.7	2061366	119.8	2155420	125.2	104.6
WLU	4362.9	438066	100.4	365452	83.8	83.4
Windsor	7720.2	956375	123.9	985897	127.7	103.1
York	14443.8	1646208	114.0	1513439	104.8	91.9
Glendon	1009.4	150362	149.0	148768	147.4	98.9
Ryerson	11003.4	1335622	121.4	916427	83.3	68.6
OCA	1708.0	397841	232.9	96260	56.4	24.2
Total	170835.2	22085033	129.3	21285341	124.6	96.4

APPENDIX A

SPACE CLASSIFICATION SCHEME

SPACE CLASSIFICATION SCHEME

Section 1 - Notes

The space classification scheme is presented in three sections. This section defines the nature and scope of the inventory that is to be included in the reporting and addresses several recurring questions concerning space inventory and classification.

Categories

Section 2 is the classification scheme itself. It includes 19 categories of space type which are accompanied by definitions aimed at the main intent of the classification. The first 15 of these categories identify the more usual kinds of usable or assignable spaces in an institution for which space standards could normally be developed, while categories 16 through 19 classify non-assignable spaces or highly specialized facilities generally of a unique nature. The definitions of the space types are meant to be mutually exclusive.

Subcategories

Each of these 19 initial categories is further classified into one or more subcategories. These subcategories are identified merely by their names and by examples of specific room types that would likely be included. The examples of room types are neither exhaustive nor mutually exclusive, but are instead intended to characterize the nature of the subcategory. It should be emphasized that all rooms classified into a subcategory must meet the definition of the main category itself.

Exclusions

A specific set of Room Types Excluded has been specified for most categories of space to assist in the immediate identification of classification problems. For detailed commentary on individual rooms it is recommended that the glossary be consulted.

Glossary

Section 3 of the classification scheme is the glossary. This is intended to be a flexible document which will record detailed decisions and trade-offs that have been made in space classification problems. In some cases use of the glossary is probably the only means by which a room could be classified (e.g. see "Computing Facilities"). The glossary therefore, forms an integral part of the classification scheme.

Reporting Format

An attachment is included with the classification scheme, although it is not really a part of it. It is a suggested format for reporting the inventory. Because of its form it is also a handy list of the category and subcategory names. Of course, any university that has sophisticated enough computer systems to produce the report will automatically find this attachment to be redundant.

Scope of Inventory

The inventory of space that is to be reported is to include all spaces defined in the classification scheme regardless of whether the space is owned, leased or rented by the university or others, and regardless of the source of funds used for its construction or acquisition and regardless of the age or condition of the space. By this definition, the space reported may include facilities not owned by the university on one hand, or may exclude owned facilities on the other. Owned facilities which are excluded for example, could be houses used for domestic purposes or income and other properties which only incidentally serve the university population. In the broadest terms, the space to be reported should be that necessary and useful to the university in supporting the institution and its faculty, staff and students in their mission of instruction, research and public service.

Coding

The classification scheme in the strictest sense is not a coding scheme in that no information about the relationships between the categories is implied or can be obtained from the category numbers. It would appear that broad agreement on just what these relationships might be cannot be reached. In the absence of further direction, several universities have used the present list of numbers as a self-contained coding structure or have used the list as the basis for the development of a detailed use-coding scheme. As unsystematic as this may be, it at least assures a direct map into any future code structure which may be used for inter-universtiy reporting, although of course, any set of one-to-one identifiers would do. In any event, it is expected that government reporting or inter-university comparison of space types will be conducted at the category or subcategory levels of detail. (This of course does not preclude the possibility of reporting by department and space type say, or by source of funds and space type.) It is further recognized that this classification scheme will not normally be detailed

enough for internal use and the universities may differ widely on the development of a third level of space classification. It is expected that any handling of data at this third level will be on an ad-hoc basis and that no large systematic reporting or handling of data need be included for. Alternatively, the universities are encouraged to develop automatic means for reporting at the subcategory level, with and without subtotaling by department, building, and possibly source of funds.

Pro-Rationing

One of the primary purposes of the classification scheme was to distinguish between spaces that were put to differing uses by means of adequate definitions or, where these judgements were difficult to make, to develop entire new categories to describe those which fell somewhere in between. Pro-rationing should not, in general, be required to distinguish between differing uses or even to describe multiple use facilities. Whole classifications should almost always be attempted on the basis of the closest definition. Of course, minimizing the pro-rationing of rooms on the basis of use will not necessarily extend to the control, function or funding of space.

Source of Funds

As previously mentioned, all facilities that can be classified by the definitions are to be included regardless of source of funds. While source of funds is an important component in the description of the capital assets of an institution and, in particular, special provisions need to be made to encourage private funding of universities, it was felt that these matters lie outside the development of a space classification scheme. It was expected that each university would retain suitable records of its funding sources without direction.

Measurement of Space

Exacting definitions of space classifications were reviewed on pages 23 through 27 of Volume 1 of Building Blocks and comprise an excellent discussion of the major space types. Further specification of the methodology of space measurement hardly seems appropriate in such a practiced jurisdiction as Ontario. There are two areas however, in which recurring difficulty in the classification of space are apparent. The first concerns the classification of Inactive space.

Broadly speaking, the intent of the classification scheme is to classify inactive spaces as either assignable or unassignable. Inactive Assignable spaces are those which are deemed to be available

for immediate occupancy but which had not been assigned to individuals or groups at the time of the survey. These spaces then, are unassigned (to individuals or groups) but are assignable (available for immediate use). Also included in this group would be larger areas constructed, finished and held for future use, or areas removed from active use because of declining needs or lack of operating funds, for example, an entire floor of a building which has been locked and kept under minimum heating. Such spaces, even though they may require some start-up time, should be reported in this sub-category. Further reporting in this subcategory could be spaces of small or moderate size which were unavailable for use for periods of time of up to one-half of an academic term, due to regular maintenance, refurbishing or minor renovations and for which the inclusion of the space either here(or for that matter in Categories 1 to 15), would not normally present a distortion of the needs of the institution. Because no definition of this type of space is included in the present Classification Scheme, it is tentatively suggested that this space be reported as Sub-Category 19.5, Inactive Assignable, as noted on the reporting form.

The classification Inactive Unassignable should be then reserved for those spaces which would require long lead times and extensive work to make them available for occupancy. Such spaces would include those left unfinished at the time of construction or those undergoing renovations or major repairs requiring large areas of a building to be out of service for many months. In the case of very extensive renovations, it may in fact be more convenient to consider the building as "under construction" and simply not report the space at all. Again, because no definition is currently in the Classification Scheme for this type of space, it is suggested that any facilities be reported under Sub-Category 16.3, Inactive Unassignable.

The second difficult area of classification concerns the measurement of Circulation Area. According to the adopted definition on page 26 of Building Blocks, circulation area is that which is required for physical access to some subdivision of space — whether or not enclosed by partitions. With increased use of office landscaped designs and the particular problems of measuring library space, there appears to be a need for some commentary in order that uniformity of measurement is achieved.

For such large unobstructed areas we should note that:

a) Code requirements must me met. The Ontario Fire Marshal's Office requires that floor plans of office landscaped areas indicate fire corridors, which must be left unobstructed. In addition, in some work areas subject to congestion, for example, large machine shops or warehousing areas, corridor demarkations may be painted on the floor to indicate fire escape routes or areas that must be left unobstructed for safety reasons. These should be measured as Circulation Area.

b) The divisions of space for which general access is required, as referred to in the Building Blocks definition, should certainly be construed to be those at the Category level of detail, and in most cases, the divisions should be made at the Subcategory level. In other words, routes necessary for general access to blocks of space which would be inventoried within a single subcategory, or corridor spaces which separate areas falling into separate subcategories, should be measured as Circulation Area.

c) Single rooms or work areas, plus integral support areas which serve a single purpose, for example: a gymnasium; a block of book stacks; spectator seating areas; or accounts payable offices plus file areas; should not include any spaces within them as Circulation Area. It is general access to the area which is the determinent, not routine movements within those spaces. Once again, an interpretive judgement will often need to be made on this space type.

Age and Quality

The age or condition of space is not be be held as a consideration when reporting space in the classification scheme. While it is agreed that such considerations may have considerable impact on the efficiency or useability of facilities, it was felt that these effects lie outside the purposes of the space classification scheme. First, the definitions are intended to classify space as used or as available for use. Second, no satisfactory methodology has yet been devised by which to judge the quality of space. Third, it is almost certain that such a judgement would be at least partly predicated on the actual inventory of the facility. It is recognized that some square feet are not equivalent to others, but the means for making these assessments must be separate from those used to inventory and classify the spaces.

Hospital Facilities

The inventory of universities with programs in the health sciences may include spaces which are used as hospitals or may house clinical staff usually located in hospitals. Much but not all of the funding for these facilities was provided under the Health Resources Development Plan and is often referred to as Z-formula space. While it is necessary that each university maintain an inventory of these facilities, no specific method of reporting has been identified in this report. Probably it is preferable that the universities inventory the clinical science spaces in each of the appropriate categories 1 through 15 for which the spaces meet the definitions and include a new category (20 say) for those health care areas for which no definition is included. (These would likely be patient bedrooms and bathrooms, nurses' stations, surgery, treatment rooms, waiting rooms, and service and supply areas.) In any event, the point to be emphasized here is that these facilities are not to be included in regular reporting to the extent that the corresponding input measures to the proposed space formula are not reported. The intent, of course, is to ensure correspondence of reporting and any of several methods of recording the spaces would be suitable. As is usual with iron-clad rules such as the one above however, there is one known exception. For convenience, the definition of FTE Undergraduates has been drawn up in such a way that it will include interns and residents. It is felt that the distortion of generated space is not serious.

SPACE CLASSIFICATION SCHEME

Section 2 - Definitions

1. CLASSROOM FACILITIES

Definition

A room generally used for scheduled teaching purposes, not requiring special equipment of a kind that makes the room unsuitable for classroom instruction, and rooms directly serving such facilities.

Subcategories

1.1 Tiered classrooms

Tiered or sloped-floored lecture theatres, lecture rooms, lecture demonstration rooms, and classrooms.

1.2 Non-tiered classrooms

Flat-floored lecture rooms, classrooms, seminar rooms, and tutorial rooms.

1.3 Classroom service space

Examination rooms, projection rooms, preparation rooms, closets, storage rooms and other related areas.

Room types excluded

Class laboratories - see category 2.

Assembly facilities - see category 15.

Conference rooms - see categories 4 and 10.

2. LABORATORY - UNDERGRADUATE

Definition

A room used for instruction requiring special-purpose equipment for undergraduate student participation, experimentation, observation, or practice in a field of study, and rooms directly serving these facilities.

Subcategories

2.1 Scheduled class laboratory space

Teaching laboratories, special subject rooms, instructional shops, typing laboratories, drafting rooms, art and music studios, music practice rooms, language laboratories, and other specially designed rooms largely used for scheduled instruction, such as dental, rehabilitation, and psychology clinics.

2.2 Unscheduled class laboratory space

This subcategory may be optionally used to classify key-punch and terminal rooms, general workrooms, drafting rooms, and other special-purpose facilities generally used for informal or irregularly scheduled instruction, or for practice.

2.3 Laboratory (undergraduate) support

Preparation rooms, balance rooms, laboratory storage rooms, demonstration rooms, animal areas, greenhouses, dark rooms, etc. directly serving the laboratory facilities.

Room types excluded

Laboratory space for graduate students and faculty - see category 3.

Non-university clinic facilities for health science programmes in hospitals or other health care areas.

Clinic facilities for university health services - see category 13.

Athletic facilities - see category 6.

Service areas for these excluded room types.

Animal areas classified elsewhere - see cats. 3 and 18.

Greenhouses classified elsewhere - see cats. 3, 9 and 15.

3. LABORATORY - GRADUATE AND FACULTY

Definition

A room used for laboratory applications, research or training in research methodology which requires special-purpose equipment for staff or graduate student experimentation or observation, and rooms directly serving these facilities.

Subcategories

3.1 Laboratory space

Faculty, graduate, and general research facilities.

3.2 Laboratory (faculty and graduate) support space

Rooms directly serving one or more research facilities which directly provide the necessary support to the research functions such as balance rooms, coat rooms, storage areas, dark rooms, technicians' office/workrooms, workshops, animal areas, and greenhouses.

Room types excluded

Undergraduate laboratories and their support space - see category 2.

Animal areas classified elsewhere - see categories 2 and 18.

Greenhouses not in support of research - see categories 2, 9 and 15.

4. INSTRUCTIONAL OFFICES AND RELATED SPACE

Definition

A room usually assigned to one or more individuals on a permanent basis, containing office-type equipment and used by faculty, departmental administrative and support staff, and students, or a room directly serving these facilities.

Subcategories

4.1 Faculty offices

Single or multiple-occupancy offices for teaching and research faculty with rank up to and including department chairmen.

4.2 Departmental academic support staff offices

Office space used by post-doctoral fellows; research assistants, demonstrators, technicians, and other professional staff directly involved in support of teaching or research, not holding an academic appointment.

4.3 Student offices

Single or multiple-occupancy rooms assigned to graduate students for study and to graduate and undergraduate students in their capacity as tutors, teaching or research assistants.

4.4 Departmental support staff offices

Office space used by administrative, clerical, and secretarial support staff to academic departments.

4.5 Office support space

Rooms directly serving office space in this category such as conference rooms, special reference libraries, file rooms, vaults, duplicating rooms, waiting and reception areas, interview rooms, storage areas, private toilets, lunch rooms, and private departmental lounges.

Room types excluded

Student offices associated with extra-curricular student organizations - see category 14.

Graduate laboratory work stations - see category 3.

Technicians' offices/workrooms classified elsewhere - see categories 2, 3, 5, 11 and 12.

Offices for deans and directors of academic divisions and their support personnel - see category 10.

Offices for general university administration - see category 10.

Central duplicating and printing areas - see cat. 12.

Lounges intended for general use - see category 14.

All space under the administration of the university library system.

5. LIBRARY AND STUDY FACILITIES

Definition

A room or group of rooms used for the acquisition, storage, circulation, study, or use of books, periodicals, manuscripts, and other reading and reference materials generally under the administration of the university library system and accessible to the university population at large, and rooms directly serving these facilities.

Subcategories

5.1 Library collection space

Stack and storage areas for books, archives, maps, documents, records, tapes, slides, micromaterials, periodicals, and music scores.

5.2 Study space

Library reading rooms, study carrels, open-stack reading rooms and study areas available to the general university population. These could be located in residences, or in facilities administered by the university library system, or academic departments.

5.3 Library support areas

Office and related areas for library administration, catalogue area, circulation desk, processing areas, bookbinding and repair areas, acquisition and cataloguing work areas, and library staff lounges.

Room types excluded

Media storage for language laboratories - see cat. 2.

Media storage for audio-visual facilities - see cat. 11.

Media storage for recreational purposes - see cat. 14.

Study areas assigned to individuals for their exclusive use in areas not administered by the university library system - see category 4.

Special reference libraries not under the control of the university library administration - see categories 4, 11, 12 and 19.

Faculty and instructional areas associated with academic programmes in library science and teacher education - see categories 2 and 3.

6. RECREATION/ATHLETIC SPACE

Definition

All indoor areas used by students, staff, or the public for athletic activities, either for recreational or competitive purposes, and rooms directly serving these facilities.

Subcategories

6.1 Athletic activity areas

Gymnasia, dance studios, swimming pools, basketball, handball and squash courts, combatives rooms, ice rinks, indoor tracks, indoor rifle and archery ranges, and activity areas including those within field houses.

6.2 Athletic seating areas

All permanent seating and observation areas in gymnasia, swimming pools, field houses, ice rinks, and other indoor activity areas.

6.3 Athletic service space

All ancillary areas directly serving the above such as locker rooms, shower rooms, washrooms, coaches' rooms, equipment supply rooms, and rooms serving athletic facilities.

Room types excluded

Laboratories required to support programmes in Physical and Health Education - see categories 2 and 3.

Office and office-related space serving athletic facilities - see category 10.

Office and office-related space in support of programmes in Physical and Health Education - see category 4.

Indoor rifle ranges associated with military training - see category 19.

7. FOOD SERVICE

Definition

A room or group of rooms used for preparing or eating food or which directly serve these facilities including central facilities located in residences and faculty clubs.

Subcategories

7.1 Food facilities

Dining rooms, cafeterias, snack bars, coffee shops, restaurants, vending machine and other refreshment areas.

7.2 Food facilities service

Kitchen, servery, all food preparation areas, dish-washing areas, refrigeration rooms, freezers, and kitchen storage, receiving, refuse areas and staff lunch, locker and private washrooms.

Room types excluded

Office and office-related space which support food service facilities - see category 10.

Refreshment booths in athletic facilities - see cat. 6.

Kitchen and dining areas located in private living quarters - see category 17.

8. BOOKSTORE AND OTHER MERCHANDISING FACILITIES

Definition

A room or group of rooms used to sell products or services, exclusively or primarily for the university population, and rooms directly serving these facilities.

Subcategory

8.1 Bookstore/Merchandising

Bookstores, Canada post office, barber shops, other stores, and associated service space operated by the university or a commercial enterprise renting space from the university.

Room types excluded

General-use food service facilities - see category 7.

Departmental and campus mail rooms - see categories 4, 10 and 12.

9. PLANT MAINTENANCE

Definition

Space associated with the operation and maintenance of university buildings, grounds, and other elements of the physical plant.

Subcategory

9.1 Plant maintenance

Shops and storage areas for carpentry, plumbing, painting, electrical and other trades, garages for maintenance vehicles and all grounds equipment, greenhouses and related areas.

Room types excluded

Janitorial facilities - see category 16.

Vocational, technical, and instructional shops in support of academic programmes - see categories 2 and 3.

Office and office-related space - see category 10.

Security-related areas - see category 10.

Central stores - see category 12.

Central utility plant - see category 16.

10. ADMINISTRATIVE OFFICE AND RELATED SPACE

Definition

A room usually assigned to one or more individuals on a permanent basis containing office-type equipment and used by administrative and support staff, or a room directly serving these facilities.

Subcategories

10.1 Office areas

Single or multiple-occupancy rooms for executives, administrative staff, deans and directors of academic divisions and their immediate support personnel.

10.2 Office support space

Rooms directly serving office space in this category such as conference rooms, special reference libraries, file rooms, vaults, duplicating rooms, waiting and reception areas, interview rooms, storage areas, private toilets, lunch rooms, and private departmental lounges.

Room types excluded

Office and office-related areas classified elsewhere - see categories 4, 5, 8, 13, 14 and 17.

Central mail, duplicating and printing areas - see category 12.

Lounges intended for general use - see category 14.

11. AUDIO-VISUAL/TELEVISION FACILITIES

Definition

A room or group of rooms used in the production, distribution, and storage of non-print instructional media, and rooms directly serving these facilities.

Subcategory

11.1 AV/TV facilities

Radio, TV, sound, photography, and graphic studios, film and tape libraries, control rooms, storage rooms, recording rooms, repair and servicing work rooms, dark rooms, preparation rooms, and similar related areas.

Room types excluded

Rooms used primarily in support of an academic programme - see category 2 and 3.

Offices and office-related space serving this category - see category 10.

Printing of instructional media - see category 12.

12. CENTRAL SERVICES

Definition

A room or group of rooms used to provide campus-wide services for both academic and non-academic sections of the university, and rooms directly serving these facilities.

Subcategories

12.1 Computing facilities

Central data processing facilities, computer rooms, key-punch areas, technical service and repair areas, and their support spaces.

12.2 Other central services

Central and regional printing and duplicating shops, central receiving areas, central stores, university mail rooms, laundry and drying rooms located in a central laundry, and technical service and repair areas.

Room types excluded

Data processing facilities and related areas intended for the sole use of students or faculty of a single academic unit - see categories 2, 3 and 4.

Laundry and drying rooms classified elsewhere - see categories 6, 8, 17 and 19.

Office or office-related space serving these facilities - see category 10.

13. HEALTH SERVICE FACILITIES

Definition

A room or group of rooms intended to supply health services primarily to the general student population, and rooms directly serving these facilities.

Subcategory

13.1 Health service facilities

Student infirmaries, doctors' offices/examining rooms, their support areas, offices and related areas within health service facilities, and first-aid rooms located elsewhere.

Room types excluded

Laboratory clinics - see categories 2 and 3.

Recreation/Athletic first-aid rooms - see category 6.

Clinic facilities for health science programmes in hospitals or other health care areas - see category 19.

14. COMMON USE AND STUDENT ACTIVITY SPACE

Definition

A room or group of rooms accessible to the general university population intended for recreation, rest, or relaxation, or rooms directly serving these facilities.

Subcategories

14.1 Student offices and support space

Offices and support space for student government, publications, and clubs.

14.2 Recreational facilities and service

Bowling alleys, pool and billiard rooms, ping-pong rooms, ballrooms, chess rooms, card playing areas, music listening areas, hobby rooms, storage and equipment issue rooms.

14.3 Lounge and service space

All general lounge space and kitchenettes, whether for students, faculty, or administrative staff, and general use lounges in residences and faculty clubs, including related service space.

Room types excluded

Athletic facilities, wherever situated, such as gymnasia, pools, and basketball, handball, and squash courts - see category 6.

Lounge space classified elsewhere - see categories 4, 5, 10, 16 and 17.

Offices for administrative staff concerned with student affairs and services - see category 10.

15. ASSEMBLY AND EXHIBITION FACILITIES

Definition

A room or group of rooms intended to serve the general university population and to be used for dramatic, musical, or devotional activities or for exhibition purposes, and rooms directly serving these facilities.

Subcategories

15.1 Assembly facilities

Theatres, auditoria, concert halls, chapels, and convocation halls and ancillary areas such as check-rooms, coat rooms, ticket booths, concession booths, dressing rooms, projection rooms, storage and control rooms.

15.2 Exhibition facilities

Museums, art galleries, other exhibition areas, green-houses used for display only and supporting areas.

Room types excluded

Areas for displaying collections intended primarily for instructional and research purposes - see categories 2 and 3.

Assembly facilities for the primary use of academic programs - see category 2.

16. NON-ASSIGNABLE

Definition

A room or area that is not available for assignment to the occupants of a building but which is necessary for the general occupation or mechanical support of one or a number of buildings.

Subcategories

16.1 Central utility plant

Boiler rooms, refrigeration plant, electrical transformer stations, cooling towers, compressing stations, water treatment facilities, incinerator, and their support areas serving more than one building or the entire campus.

16.2 Other non-assignable areas

Areas used or occupied by janitorial staff, circulation spaces, mechanical and electrical spaces, an incinerator serving one building, public washrooms, and non-assignable unfinished space.

Room types excluded

Circulation aisles within office suites, auditoria, or work areas.

Special-purpose storage and maintenance rooms - see categories 9 and 17.

Custodial supervisors' officers - see category 10.

17. RESIDENTIAL SPACE

Definition

A room or rooms used to accommodate one or more individuals and the ancillary areas in direct support of such rooms.

Subcategories

17.1 Residence living space

Single or multiple-occupancy bedrooms, and all space within apartments.

17.2 Residence service space

Laundry rooms, recreational areas, music rooms, games rooms, locker rooms, special-use lounges adjacent to living quarters, tuck shops, and administrative office space in direct support of residences.

Room types excluded

General-use lounges and recreation areas - see category 14.

General-use library and study areas - see category 5.

Food service and merchandizing facilities coded elsewhere - see categories 7 and 8.

18. ANIMAL SPACE

Definition

Animal facilities in overall support of teaching or research and not normally integrated with or under the control of academic departments.

Subcategories

18.1 Specialized central areas

Conditioning, rearing, and long-range animal holding areas, and rooms directly serving these facilities.

18.2 Farm-type areas

Barn structures, feed storage, and field service areas.

Room types excluded

Animal areas integrated with or under the control of academic departments and in direct support of teaching or research - see categories 2 and 3.

Specialized facilities within central animal areas which are in direct support of research such as operating suites - see category 3.

19. OTHER UNIVERSITY FACILITIES

Definition

Any room or area not included in categories 1 through 15.

Subcategories

19.1 Day care facilities

19.2 Rifle ranges and other space in support of military training

19.3 Merchandising facilities not exclusively or primarily serving the university population.

19.4 Demonstration schools, and other instructional institutions for non-university students.

May 1, 1975

SPACE CLASSIFICATION SCHEME

Section 3 - Glossary

TYPE OF SPACE	DEFINITION	CATEGORY
Animal Space	1. Rearing, conditioning, and holding facilities before animals are ready or required for teaching and research purposes, located either on or off campus.	18
	2. Facilities for long-term holding and care of animals following surgical or other investigative treatment, located either on or off campus.	18
	3. Short-term holding and care of animals either before or following surgical or other investigative treatment, located on campus and closely related to academic departments.	
	- in support of teaching	2
	- in support of research	3
	4. Animal operating suites either for the use of one or several academic departments, located either on or off campus.	3
Coatrooms	see Lockers	
Computing Facilities	1. Centrally located and providing campus-wide services to both academic and non-academic sections of the university.	12
	2. Located in space of an academic division for its convenience, in support of instruction, or research, or both, but available also for general use by all sections of the university.	12
	3. Located in space of an academic division and fully used by that division for combinations of instruction, research, and administration.	12
	4. Located in space of an academic division for a specific use by that division as for example:	

TYPE OF SPACE	DEFINITION	CATEGORY
	- for scheduled instruction in the use of computer equipment	2
	- for service to research by departments of the division	3
Demonstration Schools	1. Facilities generally integrated with university facilities, in which children receive regular school instruction and are available for practice teaching and observation.	19
Examination Rooms	1. Space used exclusively or primarily for examination purposes throughout the academic year.	1
	2. Space used only occasionally for examination purposes as for end-of-term examinations, the primary use of which is for other purposes, classified in the category of its primary use as for example:	
	- an arena or gymnasium used for final examinations	6
	- a meeting or assembly hall used for final examinations	15
Greenhouses	1. Primarily in support of undergraduate instruction	2
	2. Primarily in support of graduate instruction and research	3
	3. Primarily in support of university grounds keeping	9
	4. Primarily for exhibition and display purposes	15
	5. For farm use	18
Inactive Space	1. Space available for occupancy but not assigned at the time of the survey.	19.5
	2. Space not available for occupancy which was left unfinished at the time of construction.	16.3
	3. Single rooms or small groups of rooms not available for occupancy due to repairs, renovations, or remodelling to be reported in the category of its intended <u>future</u> use.	19.5
	4. Buildings under construction are not to be reported.	

TYPE OF SPACE	DEFINITION	CATEGORY
Kitchenette	1. For an academic department	4
	2. For an administrative department	10
	3. For general lounge service	14
Class Laboratories	1. Primarily used for scheduled instruction, classified as Scheduled Class Laboratory Space	2
	2. Used in an unknown fashion or intended for scheduled use but just not used at the time of reporting, classified as Scheduled Class Lab	2
	3. Primarily used for informal or irregularly scheduled instruction, and for practice, classified as Unscheduled Class Laboratory Space	2
Lockers	1. In support of a particular room, classified in the category of the space it supports, as for example:	
	- for a classroom	1
	- for a teaching laboratory	2
	- for a cafeteria	7
	2. For the general use of the students in a building	14
	3. Lockers in corridors	16
Lounges	1. For the private use of an academic department	4
	2. For the private use of library staff	5
	3. For the private use of a department in central administration	10
	4. For the general use of students or staff or both regardless of where located	14
	5. For general use in residences	14
	6. For the private use of occupants of residences	17

TYPE OF SPACE	DEFINITION	CATEGORY
Lunch, Locker and Change Rooms	1. In support of a particular kind of space to be classified in the category of the space it supports, for example:	
	- for phys-ed	6
	- for a bowling alley	14
	- for a research lab	3
	2. Provided for the exclusive use of people as necessary in the performance of their jobs, to be classified as the characteristic kind of space for that department, for example:	
	- for food service staff	7
	- for security patrolmen	10
	- for maintenance personnel	9
	- for custodial staff	9
Mail Rooms	1. A central facility for sorting and distributing mail for the campus	12
	2. Canada Post Office	8
	3. A room for sorting and distributing mail for:	
	- academic departments	4
	- central library	5
	- service departments and central administration	10
Media Storage (Recorded Music)	See Music Scores Storage and Tape Storage	
Merchandising	1. Products or services provided by the university or a commercial enterprise renting space from the university.	
	- exclusively or primarily for the university population as for example a textbook store	8
	- exclusively or primarily to the non-university community as for example a bank, public office, or commercial building	19

TYPE OF SPACE	DEFINITION	CATEGORY
Music Practice Rooms	See Language Laboratories	
Music Scores Storage	1. For music studios or practice rooms as part of instruction in music	2
	2. For instruction or research, and located in libraries	5
	3. For music listening and recreation, and available to the university population at large, not in the central library	14
	4. For the exclusive use of occupants of residences	17
Offices	1. For faculty, post-doctoral fellows, graduate students, and departmental support staff	4
	2. For the most senior academic administrator in a major division of the university, usually called a dean or director, and their immediate support personnel	10
	3. For academic heads of single academic departments or small groups of closely related programmes, usually called a chairman or department head but sometimes called a dean or director, especially of a school	4
	4. For shared support personnel between the above two categories	4
	5. For library staff	5
	6. For central administrative staff	10
	7. For managers and administrative staff of merchandising operations providing services exclusively or primarily for the university population	8
	8. For recreation/athletic staff	10
	9. For food service staff	10
	10. For maintenance staff	10
	11. For custodial supervisors	10
	12. For AV-TV staff	10
	13. For central services staff	10

TYPE OF SPACE	DEFINITION	CATEGORY
	14. For medical doctors, nurses, and administrative staff engaged in providing health care to students	13
	15. For student clubs or student government	14
	16. For technicians - see Technicians Space	
	17. For research associates - See Research Assistants Space	
Research Assistants Space	1. Space primarily used as work rooms rather than offices, classified as research support space	3
	2. Space containing only office-type equipment, assigned to individuals, classified as departmental office space	4
Special Reference Libraries	1. Reference libraries and reading rooms, not under the administration of the central library system, usually containing specialized or selected materials or special study facilities classified as part of the space they occupy as for example:	
	- in an academic department	4
	- in computer facilities	12
	- in residences	17
Special Subject Rooms	1. For scheduled instruction in non-laboratory oriented subjects for which the space per station is larger than for a normal classroom to accommodate special arrangement of stations or equipment as for example in faculties of Education and Law	2
Stores & Storage	1. Central receiving and storing of equipment, materials, and supplies for university-wide use	12
	2. Storage areas within individual departments, classified in the category of the space they support as for example:	

TYPE OF SPACE	DEFINITION	CATEGORY
	- classroom storage	1
	- department office supplies storage	4
	- building and grounds maintenance storage	9
	- residence storage	17
Study Space	1. Library study space for general or assigned use, under the administration of the university library system	5
	2. Departmental study space for general or assigned use, forming part of the study space of the central library system	5
	3. Departmental study space for general or individual use, but restricted to individuals associated with the department	4
	4. Other departmental study space for undergraduate students in support of laboratory instruction	2
	5. Study space in residences for the exclusive use of the residents and not part of departmental or university library space	17
Tape Storage	1. In direct support of teaching	2
	2. In libraries	5
	3. In support of AV-TV	11
	4. Computer tape storage	12
Technicians Space	1. Space which may contain a desk but is primarily used as a work room rather than an office, classified in the category of the space it supports, as for example:	
	- for teaching laboratory technicians	2
	- for research technicians	3
	- for AV-TV technicians	11
	- for technicians in central services	12

TYPE OF SPACE	DEFINITION	CATEGORY
	2. Space containing only office-type equipment, classified in the category of the office space of the department in which the technician works, as for example:	
	- in teaching laboratories	4
	- in research laboratories	4
	- in AV-TV	10
	- in central services	10
Unassigned or Unfinished Space	See Inactive Space	
Unscheduled Class Labs	See Class Laboratories	

Z-formula space

A special problem of identification may be present for universities with programmes in the Health Sciences. University space that is used to house hospital services or clinical departments usually located in hospitals is not covered by the capital formula. Entitlement for most if not all of this space is generated under the Z formula. However, it will need to be recorded and identified in university space records so that, upon request, it can be reported to MCU. It may need to be reported at a level of detail that will identify:

- the category of assignable space
- the use type within the category
- the clinical department holding the space, and
- the hospital affiliation of the academic staff within the clinical department holding the space

A university may choose to develop its own method of identifying this space within its space records, or it may elect to use one of the following methods:

1. A separate category may be created into which all such space is allocated.
2. All such space may be allocated to the appropriate category of assignable space (categories 1 through 15), identified in such a way that it can be extracted and reported upon request, for example, by department or source of funds.

APPENDIX B

DEFINITION OF INPUT MEASURES

Definition of Input Measures

The following definitions identify four major groups of input measures that are useful in determining the space requirements of an institution. The names of the input measures may be readily recognized as being in common university use, but are not always valid for inter-institutional comparison unless detailed descriptions of the terms and, in some cases, the possible end uses are specified. These descriptions have been drawn up in the interests of inter-institutional comparability in response to requests for more exact definitions.

INPUT MEASURES

1.0 F.T.E. Students

1.1 F.T.E. Undergraduates

1.2 F.T.E. Graduates

In order to eliminate as many uncertainties as possible, it is proposed to adopt the definitions for student enrolment which are contained in the Operating Formula Manual published by the Ministry of Colleges and Universities. Accordingly, it is expected that the number of FTE students will generally be consistent with the number reported on the Ministry's UAR 1 forms submitted by universities in December. An exception to this general rule will arise in the case of universities who do not distinguish enrolment of affiliated institutions on separate UAR 1 forms. Such enrolment should be excluded where the related space is not included in a university's inventory.

For universities providing teaching services to affiliated church colleges, the enrolment is to be determined after allowing for the net services provided. For this purpose the fiscal full-time equivalency rules are to be applied to the course registrations of the students receiving instruction both from the university and from the affiliated college (in the case of a university student receiving some portion of his academic program from the affiliated college).

The number of FTE students reported will be the sum of:

1) eligible fall term FFTE undergraduates x 2;

2) eligible and ineligible fall full-time graduates;

3) the full-time equivalency of eligible and ineligible fall part-time graduates;

4) such adjustments as may be required because of affiliated institutions.

The inclusion of ineligible graduates is intended to include those students who are making substantial demands on the university facilities, but for whom operating funds are not provided or for whom course durations have expired.

Universities operating trimester programs would normally be expected to report the fall term enrolment only. In a case in which this was seen to be not representative, the university may choose to report a simple average of the fall and winter terms. In no case should the university use the three terms divided by two calculation as a basis for reporting.

2.0 Weekly Student Contact Hours

2.1 Laboratory

2.2 Non-Laboratory

The weekly student contact hours of a university are defined to be equal to the sum of the weekly student contact hours of all courses which are offered by the university as part of a program of studies leading to a degree or diploma. The weekly student contact hours of a course are the product of the course enrolment and the hours of scheduled instruction received by each enrolled student during the reporting week. The course enrolment is the number of students participating in the instructional activities of the course. The hours of scheduled instruction are generally indicated in the course description contained in the university calendar or may be separately captured as data on a course file. The reporting week of a university is to be any representative week of the Fall term, which should generally correspond with the student enrolment as of November 1.

Laboratory weekly student contact hours are those weekly student contact hours of courses or portions of courses in which the instructional activity is facilitated by demonstration or experimentation requiring additional equipment not ordinarily available in classrooms. This would normally include courses requiring the use of language laboratories, the subject classrooms of faculties of education and art and other studios, as well as the traditional engineering, physical and biological science laboratories. Non-laboratory student contact hours are all weekly student contact hours as described above, other than laboratory weekly student contact hours.

3.0 F.T.E. Faculty

The faculty of a university is defined to include all persons up to and including department heads or chairmen holding an academic appointment, who receive remuneration from the university in return for conducting the instructional or research activities in part or in whole of courses offered by the university as part of a program of studies leading to a degree or diploma.

The term academic appointment will normally be limited to those persons who are in or above that rank which is immediately below that of Assistant Professor, as consistent with Statistics Canada reporting.

Included are visiting appointments and faculty on Sabbatical or Study Leave.

Excluded are Post Doctoral Fellows, clinical staff with full- or (the part-time portion of) part-time hospital appointments and

faculty on unpaid leaves of absence, deans of major schools or academic divisions, vice-presidents and presidents.

The university may designate each member of faculty as full-time or part-time, but such designation should be made in association with consideration of the expected contribution of the member's time required to fulfill his assigned responsibilities. The full-time equivalent of part-time faculty is derived by dividing the total salary paid to part-time faculty by the average salary of all university full-time faculty.

4.0 Library Collections (Equivalent Volumes)

The library materials identified in the university library catalogue and contained in the following tables are to be included at the stated volume equivalency rate.

Material	Items		Equivalency
For Material Stored on Horizontal Storage Units			
Volumes - excluding reference	125		125
Computer tapes	125		125
Documents, pamphlets, archives	1,000	(items)	125
Microfilm - boxed on shelves	400	(reels)	125
Microfiche - boxed on shelves	10,000		125
Newspapers - current titles on display	7	(titles)	125
Newspapers - unbound back files	7		125
Newspapers - bound back files	9	(volumes)	125
Periodicals - unbound titles on display	9	(titles)	125
Periodicals - boxed current year	30	(titles)	125
Periodicals - boxed back files	Included in volume count		
Phonodiscs - records	500		125
- tapes	500		125
- cassettes	1,000		125
Reference	45	(volumes)	125
Atlases	45		125
Slides - carousel boxes	75	(carousels)	125
Films	125	(films)	125
Filmstrips (boxed)	2,250	(strips)	125
For Material in Vertical Storage Units			
Maps	105		125
Microfilm (reels)	315		125
Micro-cards, fiche, etc.	7,900		125
Pamphlets	790	(pamphlets)	125
Slides (in cases)			
- bound	2,560	(slides)	125
- unbound	5,120	(slides)	125
Filmstrips	580	(strips)	125
Mounted Photos	790	(photos)	125

APPENDIX C

COU SPACE GUIDELINES

C.O.U. SPACE GUIDELINES

1.	Classrooms	13.0 s.f./F.T.E. student
2.	Classlabs - Group W*	8.5 s.f./weekly lab contact hour
	" X	6.5 s.f./ " " " "
	" Y	5.0 s.f./ " " " "
	" Z	3.0 s.f./ " " " "
3.	Research - Group A*	500 s.f./Researcher (i.e. FTE Faculty + ¼ Grads.)
	" B	350 s.f./ "
	" C	200 s.f./ "
	" D	75 s.f./ "
	" E	0 s.f./ "
4.	Academic Office	210 s.f./F.T.E. Faculty 40 s.f./F.T.E. Grads
5.	Library - Stack	0.08 s.f./Equiv. Vol. for 0-300,000 Vols. 0.07 s.f./ " " " 300,000-600,000 0.06 s.f./ " " " all other Vols.
	- Study	5.0 s.f./F.T.E. Undergraduate 12.0 s.f./ " " (in Professional Programs)* 8.0 s.f./ " Graduate
	- Service	0.25 x (Stack + Study)
6.	Athletics	20,000 s.f. + 8.0 s.f./F.T.E. student
7.	General Use (Food Services, Bookstore, Commons, Assembly and Exhib.)	17.5 s.f./F.T.E. student
8.	Special Use (A/V, Health Service, Maint., Computer, Stores.)	6.0 s.f./F.T.E. student
9.	Administrative Office	9.0 s.f./F.T.E. student

*See Program Classification Scheme attached.

Program Classification Scheme

The proposed space formula makes use of program or discipline groupings in the generation of Class Labs, Research and Library space. The program groups were developed originally from those listed in Appendix D of Volume 1 of Building Blocks. The programs have been classified at the "second level" of detail as listed in that publication and it may be taken that these second levels are inclusive of the detailed program names listed at the "third level".

The list of professional programs used in the generation of library facilities are those of the Operating Grants formula.

Program Related Space Factors

Program/Discipline	Class Lab Factor	Class Lab Group	Research Factor	Research Group	Professional Program
Education					
Physical and Health Education and Recreation	3.0	Z	75	D	
Other Education	5.0	Y	0	E	YES (except 4 year concurrent)
Fine & Applied Arts					
Theory, Ceramics, Drama, Theatre, Engraving, Industrial Design, Interior Design, Lithography, Music, Painting, Art, Printing, Sculpture	6.5	X	0	E	
Humanities & Related					
Classics, Classical and Dead Languages, Creative Writing, History, Mass Media Studies, Modern and Mediaeval Languages and Literature, Philosophy, Religious Studies, Translation and Interpretation	3.0	Z	0	E	
Library and Records Science	3.0	Z	75	D	YES
Social Sciences & Related					
Anthropology, Archaeology, Geography, Man/Environment Studies	5.0	Y	75	D	
Area Studies, Commerce, Business Administration, Economics, Political Science, Sociology, Military Studies, Linguistics	3.0	Z	0	E	
Law, Social Work	3.0	Z	0	E	YES
Psychology	5.0	Y	200	C	
Agriculture & Biological Science					
Agriculture	8.5	W	500	A	
Biochemistry, Biology, Biophysics Botany, Zoology	5.0	Y	500	A	

Program/Discipline	Class Lab Factor	Class Lab Group	Research Factor	Research Group	Professional Program
Agriculture & Biological Science (cont'd)					
Household Science & Related	5.0	Y	75	D	
Veterinary Medicine and Sciences	8.5	W	500	A	YES
Engineering & Applied Sciences					
Architecture, Landscape Architecture	6.5	X	0	E	
Engineering, Engineering Science	8.5	W	350	B	
Forestry	8.5	W	350	B	
Health Professions and Occupations					
Medicine	6.5	X	500	A	YES
Dentistry, Optometry	6.5	X	350	B	YES
Dental Hygiene, Medical Technology, Pharmacy, Public Health	6.5	X	350	B	
Nursing	3.0	Z	0	E	
Rehabilitation Medicine Art as Applied to Medicine	6.5	X	0	E	
Clinical Science Depts.*	0	-	0	E	
Mathematics and Physical Sciences					
Actuarial Science, Applied Mathematics (except Computer Science), Mathematical Statistics, Mathematics	3.0	Z	0	E	
Computer Science	3.0	Z	0	E	
Chemistry, Geology and related, Metallurgy, Material Science, Mateorology, Oceonography, Physics.	6.5	X	500	A	

*Do not report corresponding inventory